

FIG. 1a

A1	1
$\overline{A1}$	2
A1	3
$\overline{A1}$	4

FIG. 1b

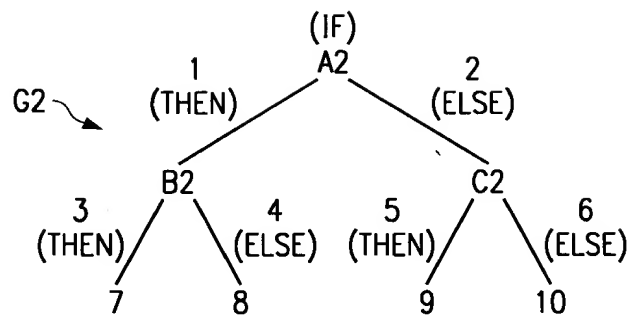


FIG. 2a

	A2	AW1
G2	1	E1 ₀
	2	E1 ₂
	B2	E1 ₃
	C2	E1 ₄
	3	
	4	
	5	
	6	⋮
	7	
	8	
9		
10	E1 ₁₁	

FIG. 2b

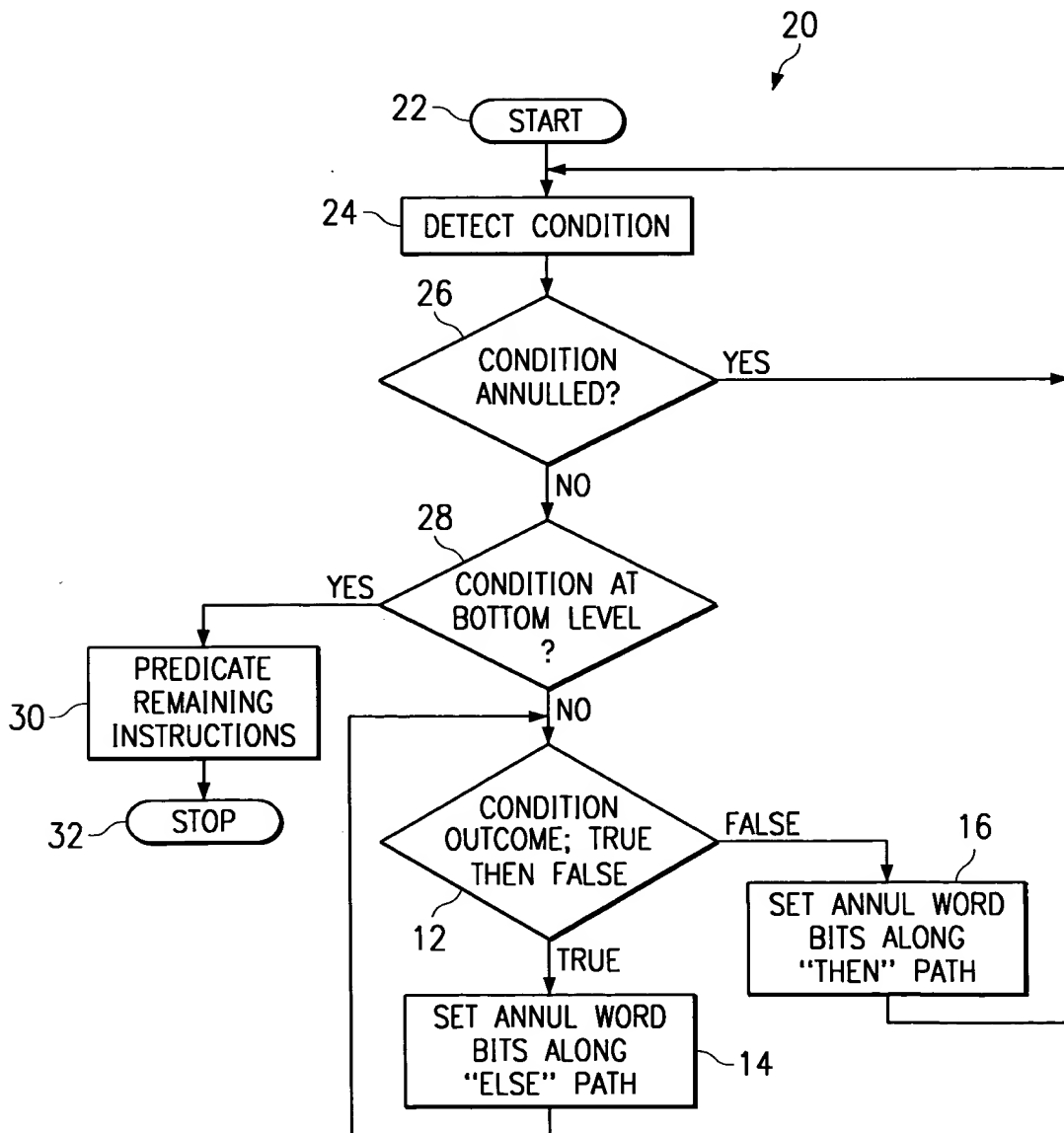
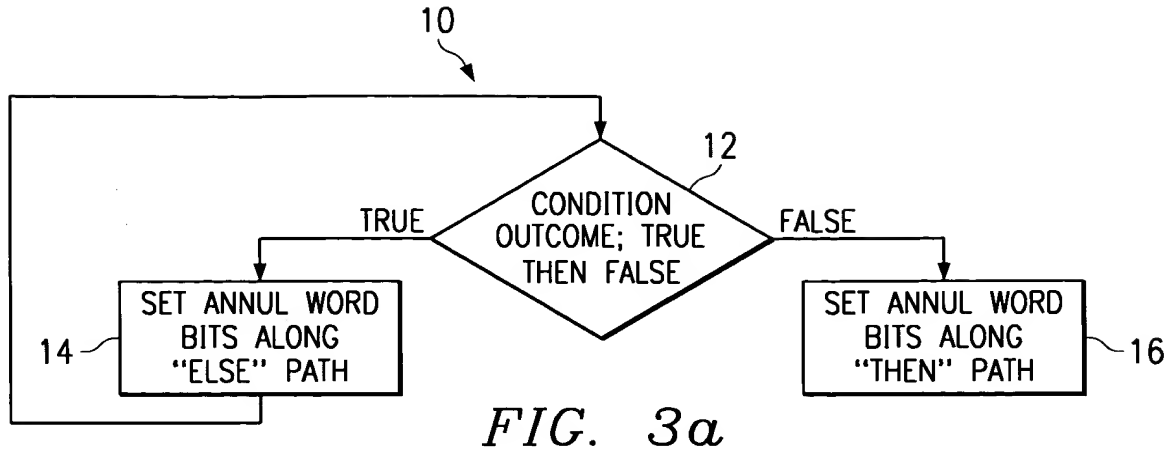
	A2	AW1	
G2	1	0	E1 ₁
	2	1	E1 ₂
	B2	0	
	C2	1	
	3	0	
	4	0	
	5	1	
	6	1	
	7	0	
	8	0	
9	1		
10	1	E1 ₁₁	
	(A2)		

FIG. 2c

	A2	AW1	
G2	1	1	E1 ₁
	2	0	E1 ₂
	B2	1	
	C2	0	
	3	1	
	4	1	
	5	0	
	6	0	
	7	1	
	8	1	
9	0		
10	0	E1 ₁₁	

FIG. 2d

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B2	3
$\overline{B2}$	4
B2	7
$\overline{B2}$	8

FIG. 4a

C2	5
$\overline{C2}$	6
C2	9
$\overline{C2}$	10

FIG. 4b

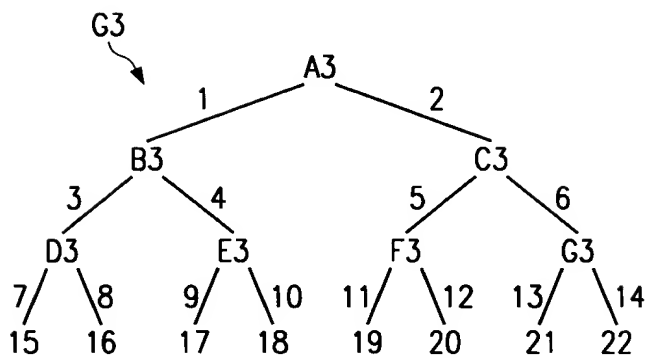


FIG. 5a

A3	AW2
1	0
2	1
B3	0
C3	1
3	0
4	0
5	1
6	1
D3	0
E3	0
F3	1
G3	1
7	0
8	0
9	0
10	0
11	1
12	1
13	1
14	1
15	0
16	0
17	0
18	0
19	1
20	1
21	1
22	1

(A3)

FIG. 5b

A3	AW2
1	1
2	0
B3	1
C3	0
3	1
4	1
5	0
6	0
D3	1
E3	1
F3	0
G3	0
7	1
8	1
9	1
10	1
11	0
12	0
13	0
14	0
15	1
16	1
17	1
18	1
19	0
20	0
21	0
22	0

($\overline{A3}$)

FIG. 5c

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A3	AW2
1	0
2	1
B3	0
C3	1
3	0
4	1
5	1
6	1
D3	0
E3	1
F3	1
G3	1
7	0
8	0
9	1
10	1
11	1
12	1
13	1
14	1
15	0
16	0
17	1
18	1
19	1
20	1
21	1
22	1

(A3, B3)

FIG. 5d

A3	AW2
1	0
2	1
B3	0
C3	1
3	1
4	0
5	1
6	1
D3	1
E3	0
F3	1
G3	1
7	1
8	1
9	0
10	0
11	1
12	1
13	1
14	1
15	1
16	1
17	0
18	0
19	1
20	1
21	1
22	1

(A3, $\overline{B3}$)

FIG. 5e

A3	AW2
1	1
2	0
B3	1
C3	0
3	1
4	1
5	1
6	0
D3	1
E3	1
F3	1
G3	0
7	1
8	1
9	1
10	1
11	1
12	1
13	0
14	0
15	1
16	1
17	1
18	1
19	1
20	1
21	0
22	0

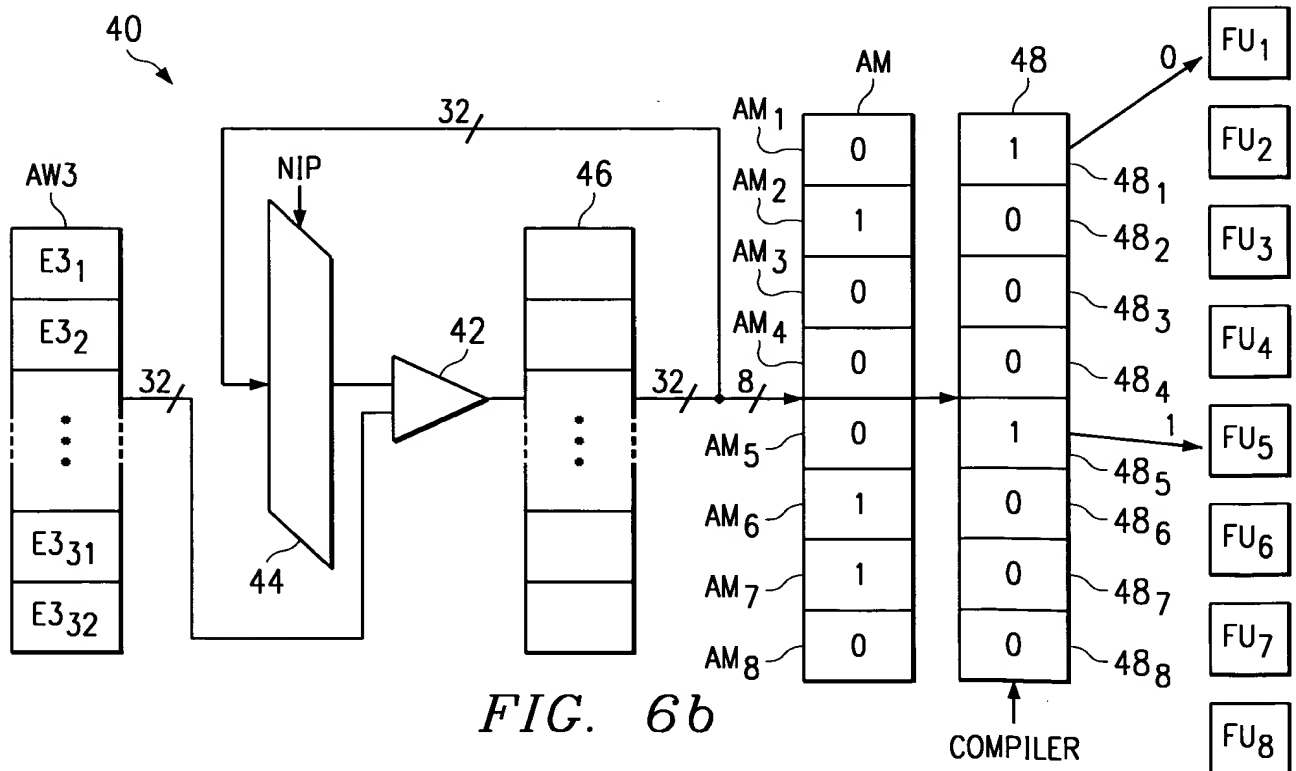
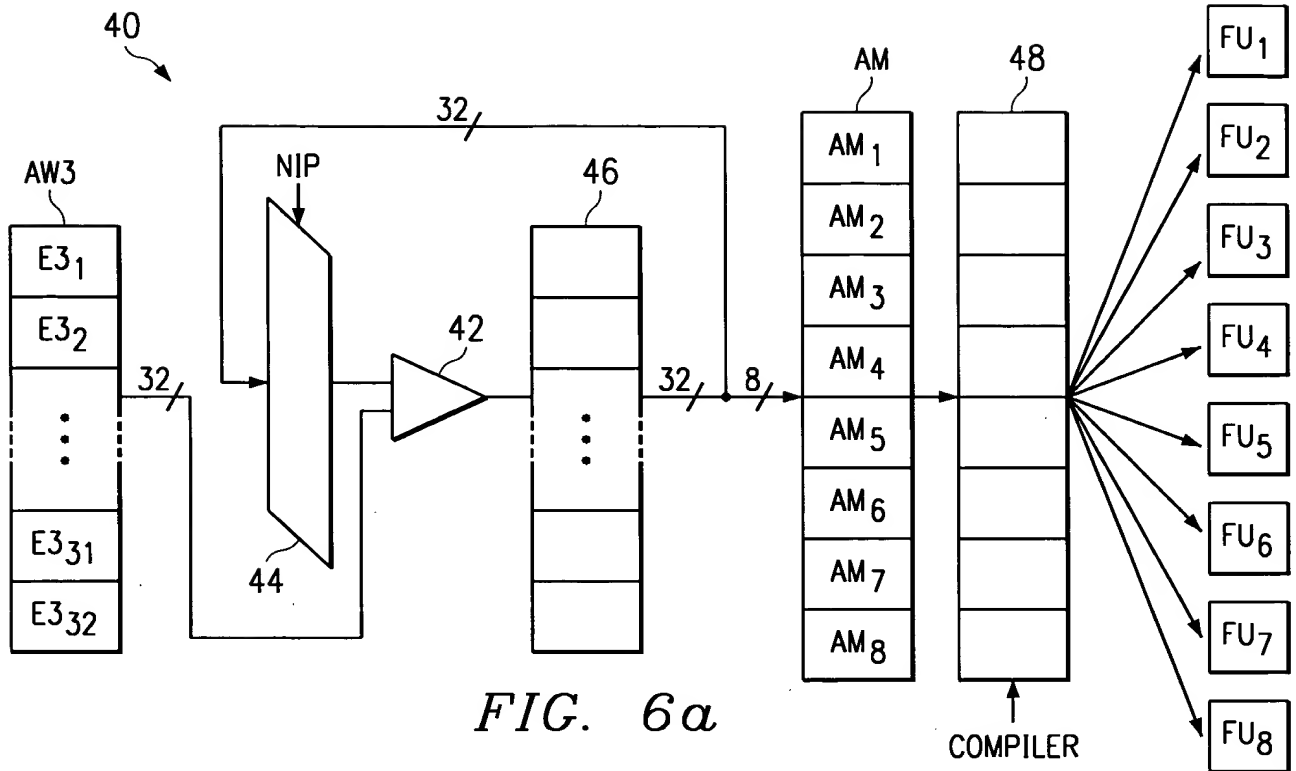
($\overline{A3}$, $\overline{C3}$)

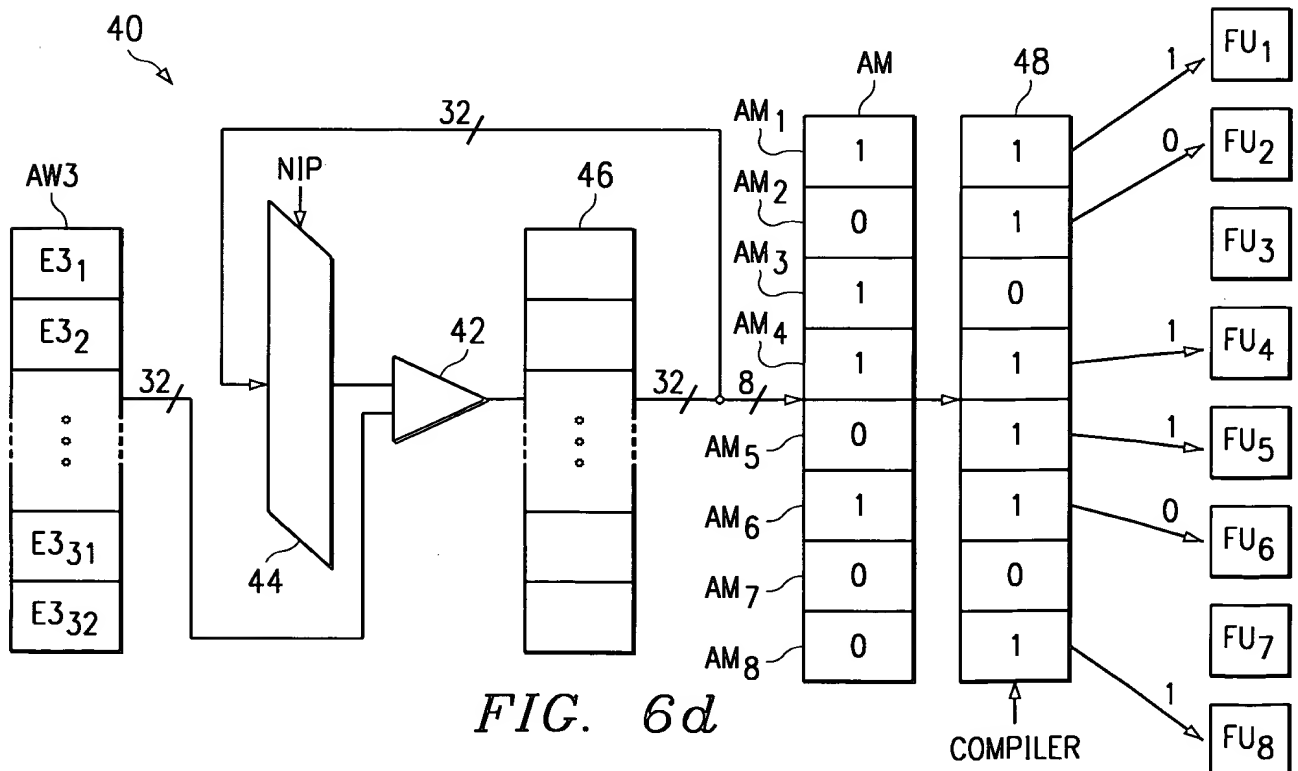
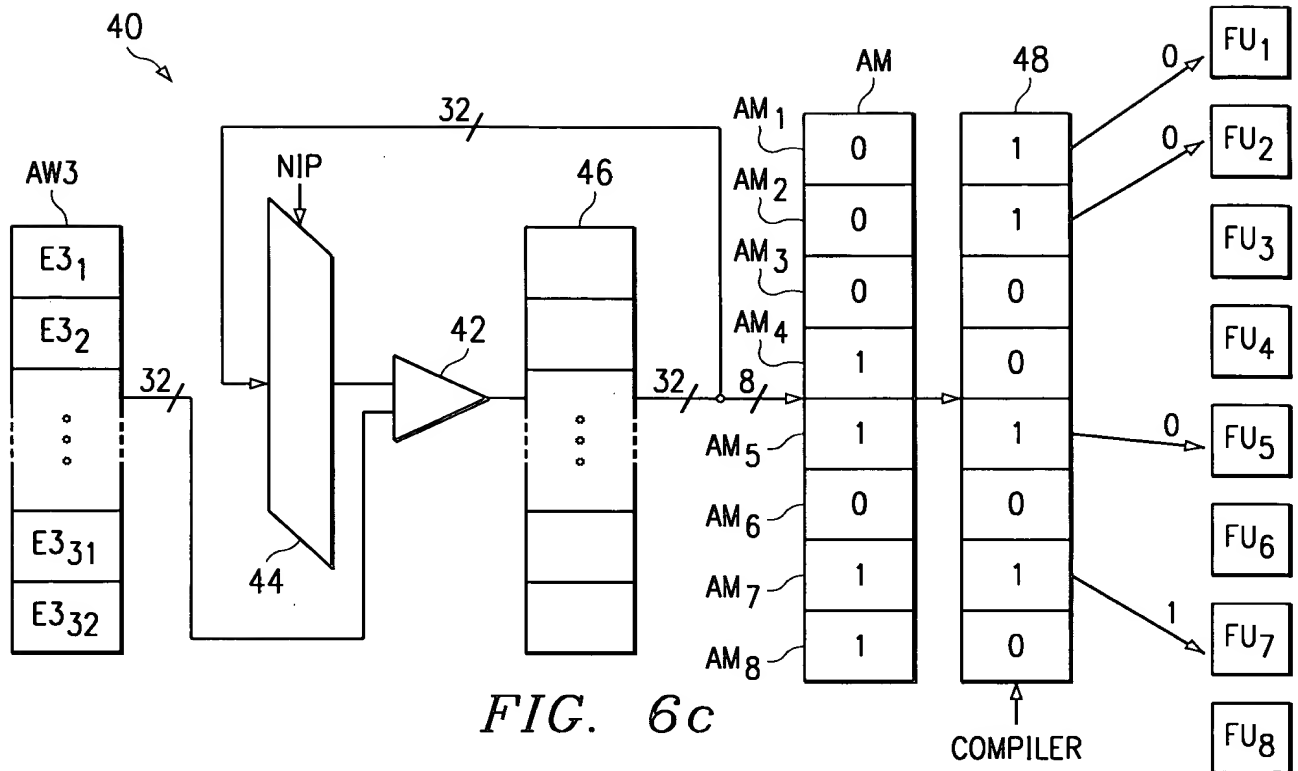
FIG. 5f

A3	AW2
1	1
2	0
B3	1
C3	0
3	1
4	1
5	0
6	1
D3	1
E3	1
F3	0
G3	1
7	1
8	1
9	1
10	1
11	0
12	0
13	1
14	1
15	1
16	1
17	1
18	1
19	0
20	0
21	1
22	1

($\overline{A3}$, C3)

FIG. 5g





FUNCTIONAL UNITS	INSTRUCTIONS	ANNUL (AW1)
FU ₁	1	0
FU ₅	2	1
FU ₁	3	0
FU ₂	B2	0
FU ₅	4	0
FU ₇	C2	1
FU ₁	5	1
FU ₂	7	0
FU ₄	9	1
FU ₅	6	1
FU ₆	8	0
FU ₈	10	1

FIG. 7

FIG. 8
(PRIOR ART)

CLOCK CYCLE	b1 ₀	b2 ₀		
0	b1 ₀	b2 ₀		
1	b1 ₁	b2 ₁		
2	b1 ₂	b2 ₂		
3	b1 ₃	b2 ₃		
4	b1 ₄	b2 ₄		
5	b1 ₅	b2 ₅	b3 ₀	
6	b1 ₆	b2 ₆	b3 ₁	b4 ₀
7	b1 ₇	b2 ₇	b3 ₂	b4 ₁
8	b1 ₈	b2 ₈	b3 ₃	b4 ₂
9	b1 ₉	b2 ₉	b3 ₄	b4 ₃
10	b1 ₁₀	b2 ₁₀	b3 ₅	b4 ₄
11	b1 ₁₁	b2 ₁₁	b3 ₆	b4 ₅
⋮	⋮	⋮	⋮	⋮
127	b1 ₁₂₇	b2 ₁₂₇	b3 ₁₂₂	b4 ₁₂₁
128			b3 ₁₂₃	b4 ₁₂₂
129			b3 ₁₂₄	b4 ₁₂₃
130			b3 ₁₂₅	b4 ₁₂₄
131			b3 ₁₂₆	b4 ₁₂₅
132			b3 ₁₂₇	b4 ₁₂₆
133				b4 ₁₂₇
134				

FIG. 9

CLOCK CYCLE	b1 ₀	b2 ₀	b3 _A	b4 _A
0	b1 ₀	b2 ₀	b3 _A	b4 _A
1	b1 ₁	b2 ₁	b3 _A	b4 _A
2	b1 ₂	b2 ₂	b3 _A	b4 _A
3	b1 ₃	b2 ₃	b3 _A	b4 _A
4	b1 ₄	b2 ₄	b3 _A	b4 _A
5	b1 ₅	b2 ₅	b3 ₀	b4 _A
6	b1 ₆	b2 ₆	b3 ₁	b4 ₀
7	b1 ₇	b2 ₇	b3 ₂	b4 ₁
8	b1 ₈	b2 ₈	b3 ₃	b4 ₂
9	b1 ₉	b2 ₉	b3 ₄	b4 ₃
10	b1 ₁₀	b2 ₁₀	b3 ₅	b4 ₄
11	b1 ₁₁	b2 ₁₁	b3 ₆	b4 ₅
⋮	⋮	⋮	⋮	⋮
127	b1 ₁₂₇	b2 ₁₂₇	b3 ₁₂₂	b4 ₁₂₁
128	b1 _A	b2 _A	b3 ₁₂₃	b4 ₁₂₂
129	b1 _A	b2 _A	b3 ₁₂₄	b4 ₁₂₃
130	b1 _A	b2 _A	b3 ₁₂₅	b4 ₁₂₄
131	b1 _A	b2 _A	b3 ₁₂₆	b4 ₁₂₅
132	b1 _A	b2 _A	b3 ₁₂₇	b4 ₁₂₆
133	b1 _A	b2 _A	b3 _A	b4 ₁₂₇
134				

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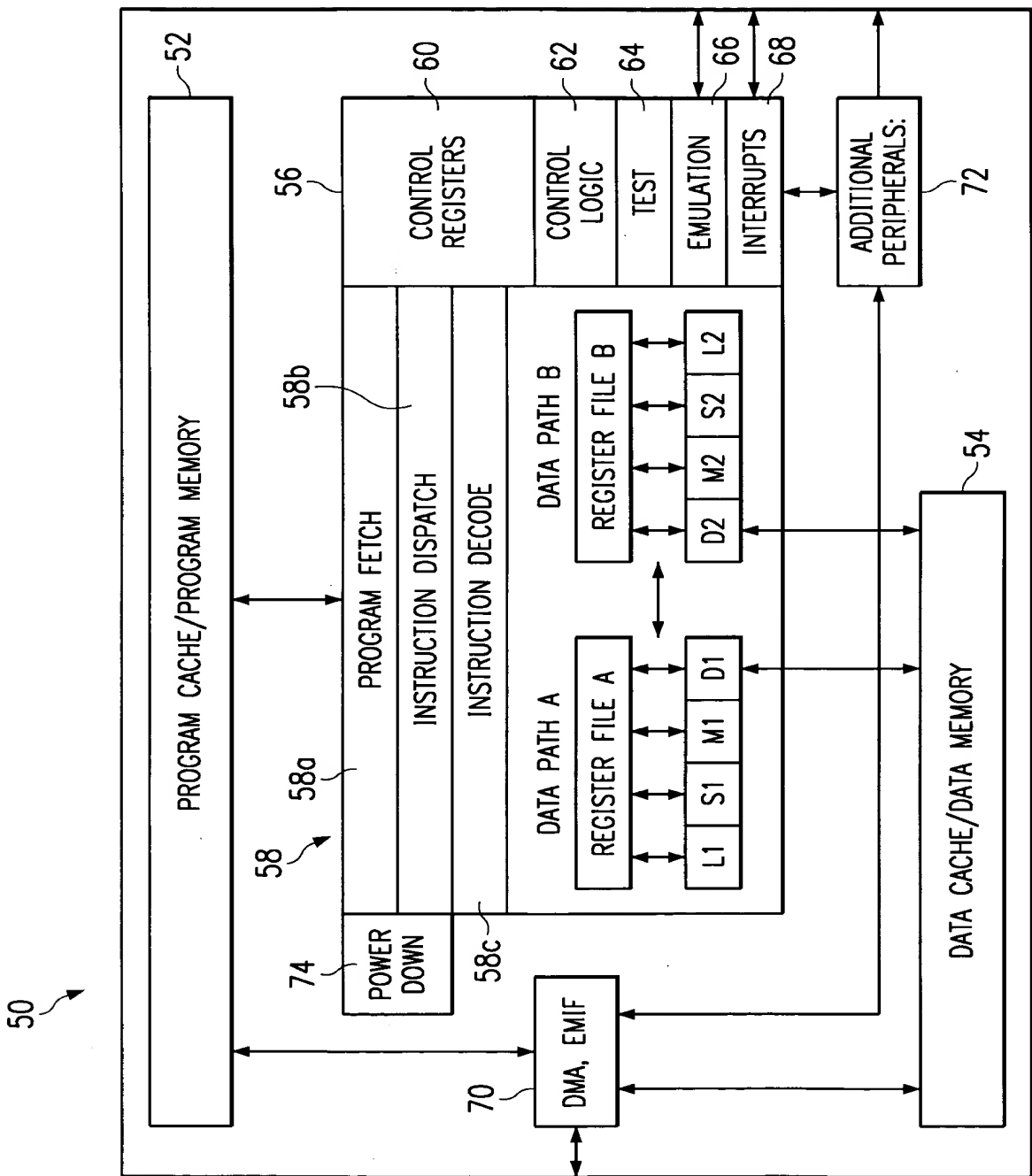


FIG. 10